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PTO/SB/21 (6-98)
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Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

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TRANSMITTAL FORM <i>(to be used for all correspondence after initial filing)</i>	Application Number	10/616,480
	Filing Date	07/08/2003
	First Named Inventor	VITERI, Fermin
	Group Art Unit	
	Examiner Name	
Total Number of Pages in This Submission		Attorney Docket Number 3097.001

ENCLOSURES (check all that apply)		
<input type="checkbox"/> Fee Transmittal Form	<input type="checkbox"/> Assignment Papers (for an Application)	<input type="checkbox"/> After Allowance Communication to Group
<input type="checkbox"/> Fee Attached	<input type="checkbox"/> Drawing(s)	<input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences
<input type="checkbox"/> Amendment / Response	<input type="checkbox"/> Licensing-related Papers	<input type="checkbox"/> Appeal Communication to Group (Appeal Notice, Brief, Reply Brief)
<input type="checkbox"/> After Final	<input type="checkbox"/> Petition Routing Slip (PTO/SB/69) and Accompanying Petition	<input type="checkbox"/> Proprietary Information
<input type="checkbox"/> Affidavits/declaration(s)	<input type="checkbox"/> Petition to Convert to a Provisional Application	<input type="checkbox"/> Status Letter
<input type="checkbox"/> Extension of Time Request	<input type="checkbox"/> Power of Attorney, Revocation Change of Correspondence Address	<input checked="" type="checkbox"/> Additional Enclosure(s) (please identify below)
<input type="checkbox"/> Express Abandonment Request	<input type="checkbox"/> Terminal Disclaimer	return postcard
<input checked="" type="checkbox"/> Information Disclosure Statement	<input type="checkbox"/> Small Entity Statement	
<input type="checkbox"/> Certified Copy of Priority Document(s)	<input type="checkbox"/> Request for Refund	
<input type="checkbox"/> Response to Missing Parts/Incomplete Application	Remarks	
<input type="checkbox"/> Response to Missing Parts under 37 CFR 1.52 or 1.53		

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT	
Firm or Individual name	Bradley P. Heisler
Signature	
Date	Sept. 2, 2003

CERTIFICATE OF MAILING	
I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Assistant Commissioner for Patents, Washington, D.C. 20231 on this date: 09/02/2003	
Typed or printed name	Carmen McCarty
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UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant:	VITERI, Fermin et al.
Serial No.:	10/616,480
Filed:	July 8, 2003
For:	Hydrocarbon Combustion Power Generation System with CO2 Sequestration

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

In accordance with the requirements of 37 C.F.R. §§1.97 and 1.98, the undersigned requests that the information contained herein be considered by the Office.

REMARKS

The information to be considered includes: a form PTO-1449 listing references and a copy of the listed references, in accordance with 37 C.F.R. §1.98.

The following statements are provided identifying the relevance, as understood by the undersigned, of the references included herein which are provided in a language other than English. No translations are available for these references. If additional information is deemed necessary by the Office, please contact the undersigned.

French Patent No. 350,612 to Braun appears to teach a combustor which combusts a hydrocarbon fuel (page 2, column 6 and 7) in the presence of air and vaporized water (page 1, column 31). The combustor appears to be located upstream of a turbine. The

technology taught by Braun is distinct from the technology at issue in this case in that the oxidizer is in the form of air rather than oxygen, among other significant differences.

German Patent No. 1,301,821 to Fabian appears to teach a rocket engine which combusts a fuel such as an alcohol and also delivers water into the combustion chamber of the rocket engine. This reference is distinct from the technology which is the subject of the present application in that it is a combustor for a thrust engine rather than coupled to a turbine for power generation, among other significant differences.

German Patent No. 2,933,932 to Sternfeld et al. appears to teach a combustor for oxygen and hydrogen which also introduces water into the combustor (see figure 6). This reference is distinct from the technology of the present application in that no carbon is included in the hydrogen so that no carbon dioxide is formed requiring separation, among other significant differences.

German Patent No. 3,122,338 to Rohatscheck et al. appears to teach a fuel combustor which includes water introduced into the combustion chamber.

European Patent No. 197,555 to Ramsaier et al. appears to teach a combustor for a mixture of hydrogen and oxygen which includes water directed into the combustor.

Published German Application No. 3,512,947 has the same disclosure as European Patent No. 197,555.

European Published Application No. 413,199 to Siemens appears to teach a gas synthesis system which includes various different constituents inputted into the system some of which are combusted or otherwise reacted to produce other constituents which in some ways relate to the chemical reactions taking place in the technology of the present application.

None of these references appear to teach, either alone or in any conceivable combination, the requirements of the invention of this application as claimed.

This document is filed before a first Office action on the merits of this case, and hence should be considered as timely filed. Should the examiner have any questions upon his

review of the above information, the undersigned requests that the examiner contact the undersigned by phone.

Respectfully Submitted:



Bradley P. Heisler
Applicants' Attorney
Telephone (916) 781-6634
Registration No.: 35,892

Sept 2, 2003
Date

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PTO/SB/08A (10-96)
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Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>		Complete if Known	
		Application Number	10/616,480
		Filing Date	07/08/2003
		First Named Inventor	VITERI, Fermin
		Group Art Unit	
		Examiner Name	
Sheet 1 of 12	Attorney Docket Number	3097.001	

U.S. PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (if known)			
		864,017		Miller	08-20-1907	
		886,274		Tate	04-28-1908	
		1,013,907		Taylor	01-09-1912	
		1,227,275		Kraus	05-22-1917	
		1,372,121		Davis	03-22-1921	
		1,820,755		McMullen	08-25-1931	
		1,828,784		Perrin	10-27-1931	
		2,004,317		Forster	06-11-1935	
		2,033,010		Russell	03-03-1936	
		2,078,956		Lysholm	05-04-1937	
		2,168,313		Bichowsky	08-08-1939	
		2,218,281		Ridder	10-15-1940	
		2,359,108		Hoskins	09-26-1944	
		2,368,827		Hanson	02-06-1945	
		2,374,710		Smith	05-01-1945	
		2,417,835		Moore	03-25-1947	
		2,428,136		Barr	09-30-1947	
		2,469,238		Newton	05-03-1949	
		2,476,031		Farkas	07-12-1949	
		2,478,682		Blackwood	08-09-1949	

FOREIGN PATENT DOCUMENTS								
Examiner Initials*	Cite No. ¹	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Office ³	Number ⁴	Kind Code ⁵ (if known)				
		GB	6394		Smith	05-28-1898		
		FR	350,612		Braun	01-07-1905		
		GB	140,516		Torazzi	03-23-1920		
		GB	271,706		Schmid	05-26-1927		
		DE	1,301,821		Fabian	08-28-1969		
		DE	2,933,932	/	Sternfeld	12-09-1982		
		DE	3,122,338	/	Rohatscheck	05-19-1983		
		DE	2,111,602	/	Stahl	07-06-1983		
		EP	0,197,555	/	Ramsaier	04-09-1986		
		DE	3,512,947	/	Ramsaier	10-16-1986		

Examiner Signature	Date Considered
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			Filing Date	07/08/2003	
			First Named Inventor	VITERI, Fernin	
			Group Art Unit		
			Examiner Name		
Sheet	2	of	12	Attorney Docket Number	3097.001

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		Number	Kind Code ² (if known)			
		2,487,435		Goddard	11-08-1949	
		2,523,656		Goddard	09-26-1950	
		2,547,093		Ray	04-03-1951	
		2,563,028		Goddard	08-07-1951	
		2,568,787		Bosch	09-25-1951	
		2,582,938		Eastman	01-15-1952	
		2,605,610		Hermitte	08-05-1952	
		2,621,475		Loy	12-16-1952	
		2,636,345		Zoller	04-28-1953	
		2,654,217		Rettaliata	10-06-1953	
		2,656,677		Peterson	10-27-1953	
		2,662,373		Sherry	12-15-1953	
		2,678,531		Miller	05-18-1954	
		2,678,532		Miller	05-18-1954	
		2,697,482		Blizard	12-21-1954	
		2,717,491		Barr	09-13-1955	
		2,722,100		Goddard	11-01-1955	
		2,763,987		Kretschmer	09-25-1956	
		2,770,097		Walker	11-13-1956	
		2,832,194		Kuhner	04-29-1958	

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		Office ³	Number ⁴	Kind Code ⁵ (if known)				
		EP	0413199	/	Siemens	02-20-1991		
		JP	WO 91/02886	/	Muraki	03-07-1991		
		EP	0546501	/	Drnevich	06-16-1993		
		US	WO 94/10427	/	Ginter	05-11-1994		
		EP	06318464	/	Hiroshi	11-15-1994		
		EP	0634562	/	Scharpf	01-18-1995		
		US	WO 96/07024	/	Beichel	03-07-1996		
		US	WO 97/44574	/	Collin	11-27-1997		

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				Filing Date	07/08/2003
				First Named Inventor	VITERI, Fermin
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Sheet	3	of	12	Attorney Docket Number	3097.001

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		Number	Kind Code ² (if known)			
		2,869,324		Foote	01-20-1959	
		2,884,912		Lewis	05-05-1959	
		2,916,877		Walter	12-15-1959	
		2,986,882		Pavlecka	06-06-1961	
		3,038,308		Fuller	06-12-1962	
		3,054,257		Schelp	09-18-1962	
		3,101,592		Robertson	08-27-1963	
		3,134,228		Wolansky	05-26-1964	
		3,183,864		Stengel	05-18-1965	
		3,238,719		Harslem	03-08-1966	
		3,298,176		Forsyth	01-17-1967	
		3,302,596		Zinn	02-07-1967	
		3,315,467		DeWitt	04-25-1967	
		3,331,671		Goodwin	07-18-1967	
		3,335,565		Aguet	08-15-1967	
		3,359,723		Bohensky	12-26-1967	
		3,385,381		Calaman	05-28-1968	
		3,423,028		Stupakis	01-21-1969	
		3,459,953		Hughes	08-05-1969	
		3,559,402		Stone	02-02-1971	

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				Application Number	10/616,480
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		Number	Kind Code ² (if known)			
		3,574,507		Kydd	04-13-1971	
		3,608,529		Smith	09-28-1971	
		3,649,469		MacBeth	03-14-1972	
		3,657,879		Ewbank	04-25-1972	
		3,677,239		Elkins	07-18-1972	
		3,693,347		Kydd	09-26-1972	
		3,702,110		Hoffman	11-07-1972	
		3,703,807		Rice	11-28-1972	
		3,731,485		Rudolph	05-08-1973	
		3,736,745		Karig	06-05-1973	
		3,738,792		Feng	06-12-1973	
		3,747,336		Dibelius	07-24-1973	
		3,751,906		Leas	08-14-1973	
		3,722,881		Lange	11-20-1973	
		3,779,212		Wagner	12-18-1973	
		3,792,690		Cooper	02-19-1974	
		3,804,579		Wilhelm	04-16-1974	
		3,807,373		Chen	04-30-1974	
		3,826,080		DeCorso	07-30-1974	
		3,831,373		Flynt	08-27-1974	

[illegible]

Examiner Signature	Date Considered
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		Number	Kind Code ² (if known)			
		3,850,569		Alquist	11-26-1974	
		3,854,283		Stirling	12-17-1974	
		3,862,624		Underwood	01-28-1975	
		3,862,819		Wentworth	01-28-1975	
		3,928,961		Pfefferle	12-30-1975	
		3,972,180		Van Gelder	08-03-1976	
		3,978,661		Cheng	09-07-1976	
		3,980,064		Ariga	09-14-1976	
		3,982,878		Yamane	09-28-1976	
		4,063,414		Sata	12-20-1977	
		4,118,925		Sperry	10-10-1978	
		4,133,171		Earnest	01-09-1979	
		4,148,185		Somers	04-10-1979	
		4,193,259		Muenger	03-18-1980	
		4,194,890		McCombs	03-25-1980	
		4,199,327		Hempill	04-22-1980	
		4,224,299		Barber	09-23-1980	
		4,224,991		Sowa	09-30-1980	
		4,249,371		Romeyke	02-10-1981	
		4,271,664		Earnest	06-09-1981	

[illegible]

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Substitute for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet

6

of

12

Complete if Known

Application Number

~~10/616,480~~

Filing Date

07/08/2003

First Named Inventor

VITERI, Fermin

Group Art Unit

Examiner Name

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		Number	Kind Code ² (if known)			
		4,273,743		Barber	06-16-1981	
		4,297,841		Cheng	11-03-1981	
		4,313,300		Wilkes	02-02-1982	
		4,327,547		Hughes	05-04-1982	
		4,377,067		Sternfeld	03-22-1983	
		4,425,755		Hughes	01-17-1984	
		4,426,842		Collet	01-24-1984	
		4,434,613		Stahl	03-06-1984	
		4,456,069		Vigneri	06-26-1984	
		4,465,023		Wagner	08-14-1984	
		4,498,289		Osgerberby	02-12-1985	
		4,499,721		Cheng	02-19-1985	
		4,509,324		Urbach	04-09-1985	
		4,519,769		Tanaka	05-28-1985	
		4,528,811		Stahl	07-16-1985	
		4,533,314		Herberling	08-06-1985	
		4,549,397		Cheng	10-29-1985	
		4,622,007		Gitman	11-11-1986	
		4,631,914		Hines	12-30-1986	
		4,657,009		Zen	04-14-1987	

FOREIGN PATENT DOCUMENTS

[illegible]

**Examiner
Signature**

Date
Considered

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Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)				C m p l e t e d i f K n o w n	
				Application Number	10/616,480
				Filing Date	07/08/2003
				First Named Inventor	VITERI, Fermin
				Group Art Unit	
				Examiner Name	
Sheet	7	of	12	Attorney Docket Number	3097.001

U.S. PATENT DOCUMENTS						
Examiner Initials ¹	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (if known)			
		4,674,463		Duckworth	06-23-1987	
		4,680,927		Cheng	07-21-1987	
		4,716,737		Mandrin	01-05-1988	
		4,731,989		Furuya	03-22-1988	
		4,765,143		Crawford	08-23-1988	
		4,825,650		Hosford	05-02-1989	
		4,841,721		Patton	06-27-1989	
		4,845,940		Beer	07-11-1989	
		4,884,529		Byrnes	12-05-1989	
		4,899,537		Cheng	02-13-1990	
		4,910,008		Prudhon	03-20-1990	
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		4,928,478		Maslak	05-29-1990	
		4,942,734		Markbreiter	07-24-1990	
		4,948,055		Belcher	08-14-1990	
		4,982,568		Kalina	01-08-1991	
		4,987,735		DeLong	01-29-1991	
		5,050,375		Dickinson	09-24-1991	
		5,055,030		Schirmer	10-08-1991	
		5,069,031		Shekleton	12-03-1991	

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				Application Number	10/616,480
				Filing Date	07/08/2003
				First Named Inventor	VITERI, Fermin
				Group Art Unit	
				Examiner Name	
Sheet	8	of	12	Attorney Docket Number	3097.001

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		Number	Kind Code ² (if known)			
		5,088,450		Sternfeld	02-18-1992	
		5,103,630		Correa	04-14-1992	
		5,131,225		Roettger	07-21-1992	
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		5,265,410		Hisatome	11-30-1993	
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		5,329,758		Urbach	07-19-1994	
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		RE35,061		Correa	10-17-1995	
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		5,490,377		Janes	02-13-1996	
		5,491,969		Cohn	02-20-1996	

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			Application Number	10/616,480	
			Filing Date	07/08/2003	
			First Named Inventor	VITERI, Fermin	
			Group Art Unit		
Examiner Name					
Sheet	9	of	12	Attorney Docket Number	3097.001

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		Number	Kind Code ² (if known)			
		5,511,971		Benz	04-30-1996	
		5,535,584		Janes	07-16-1996	
		5,541,014		Micheli	07-30-1996	
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		5,572,861		Shao	11-12-1996	
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		5,628,184		Santos	05-13-1997	
		5,636,980		Young	06-10-1997	
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		5,679,134		Brugerolle	10-21-1997	
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		5,687,560		Janes	11-18-1997	
		5,709,077		Beichel	01-20-1998	
		5,715,673		Beichel	02-10-1998	

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		Office ³	Number ⁴	Kind Code ⁵ (if known)				

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Substitute for form 1449B/PTO			C mplete if Known		
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)			Application Number	10/616,480	
			Filing Date	07/08/2003	
			First Named Inventor	VITEBI, Fermin	
			Group Art Unit		
			Examiner Name		
Sheet	10	of	12	Attorney Docket Number	3097,001

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	/	REINKENHOF, J. et al.; Steam Generation with Modified H ₂ /O ₂ - Rocket Engines; unknown date	
	/	STERNFELD, H.; A Hydrogen/Oxygen Steam Generator for the Peak-Load Management of Steam Power Plants; unknown date	
	/	BRAUSER, S. et al.; A Proposed Hydrogen-Oxygen Power Cycle; 1967; Stillwater, Oklahoma	
	/	REESE, R. et al.; A Proposed Hydrogen-Oxygen Fueled Steam Cycle for the Propulsion of Deep Submersibles; 1971; Massachusetts	
	/	LOTKER, M.; Hydrogen for the Electric Utilities - Long Range Possibilities; 1974; Hartford, Connecticut	
	/	LUCCI, A. et al.; Title Unknown (IECEC '75 Record); 1975; Canoga Park, California	
	/	DE BIASI, V.; A Look into Real Payoffs for Combined Cycle Conversions; Gas Turbine World; 1984; pp. 17, 18, 20, 22	
	/	PAK, P. S. et al.; Closed Dual Fluid Gas Turbine Power Plant without Emission of CO ₂ into the Atmosphere; IFAC/IFORS/IAEE Symposium; 1989; Pergamon Press; Tokyo, Japan	
	/	YANTOVSKII, E. I.; The Thermodynamics of Fuel-Fired Power Plants without Exhaust Gases; November 1991; Geneva	
	/	YANTOVSKII, E. I.; Computer Exergonomics of Power Plants without Exhaust Gases; Energy Convers. Mgmt.; 1992; pp. 405-412; Vol. 33, No. 5-8; Pergamon Press Ltd.; Great Britain	
	/	HOLLAND, O. et al.; New Concepts for Natural Gas Fired Power Plants which Simplify the Recovery of Carbon Dioxide; Energy Convers. Mgmt.; 1992; pp. 467-475; Vol. 33, No. 5-8; Pergamon Press Ltd.; Great Britain	

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			Application Number	10/616,480	
			Filing Date	07/08/2003	
			First Named Inventor	VITERI, Fermin	
			Group Art Unit		
			Examiner Name		
Sheet	11	of	12	Attorney Docket Number	3097.001

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	/	HENDRIKS, C.A. et al.; Carbon Dioxide Recovery Using a Dual Gas Turbine IGCC Plant; Energy Convers. Mgmt.; 1992; pp. 387-396; Vol. 33, No. 5-8; Pergamon Press Ltd.; Great Britain	
	/	MERCEA, P. V. et al.; Oxygen Separation from Air by a Combined Pressure Swing Adsorption and Continuous Membrane Column Process; Journal of Membrane Science; 1994; pp. 131-144; Cincinnati, Ohio	
	/	BOLLAND, O. et al.; Comparative Evaluation of Combined Cycles and Gas Turbine Systems with Water Injection, Steam Injection, and Recuperation; Transactions of the ASME; January 1995; pp. 138-140, 142-145; Vol. 117	
	/	The NOx Report; February 20, 1995; Vol. 1, No. 1	
	/	ALKAM, M. K. et al.; Methanol and Hydrogen Oxidation Kinetics in Water at Supercritical States; 1995; The University of Iowa; Iowa City, Iowa	
	/	RICE, I. G.; Steam-Injected Gas Turbine Analysis: Steam Rates; Journal of Engineering for Gas Turbines and Power; April 1995; pp. 347-353; Vol. 117	
	/	YANTOVSKII, E. I.; A Zero Emission Combustion Power Plant for Enhanced Oil Recovery; Energy; 1995; Vol. 20, No. 8; pp. 823-828	
	/	KOLP, D. A. et al.; Advantages of Air Conditioning and Supercharging an LM6000 Gas Turbine Inlet; Journal of Engineering for Gas Turbines and Power; July 1995; Vol. 117	
	/	EPA Proposes Across-the-Board Phase II NOx Limitations; Air Pollution Regulatory Analysis Service; January 19, 1996; Article No. 96-2	

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			Application Number	10/616,480	
			Filing Date	07/08/2003	
			First Named Inventor	VITERI, Fermin	
			Group Art Unit		
			Examiner Name		
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		AGAZZANI, A. et al.; An Assessment of the Performance of Closed Cycles with and without Heat Rejection at Cryogenic Temperatures; International Gas Turbine and Aeroengine Congress & Exhibition; June 10-13, 1996; Birmingham, UK	
		FACCHINI, B. et al.; Semi-Closed Gas Turbine/Combined Cycle with Water Recovery and Extensive Exhaust Gas Recirculation; International Gas Turbine and Aeroengine Congress & Exhibition; June 10-13, 1996; Birmingham, UK	
		NAKHAMKIN, M. et al.; The Cascaded Humidified Advanced Turbine (CHAT); Journal of Engineering for Gas Turbines and Power; July 1996; pp. 565-571; Vol. 118	
		RICE, I. G.; Split Stream Boilers for High-Temperature/High-Pressure Topping Steam Turbine Combined Cycles; Journal of Engineering for Gas Turbines and Power; April 1997; pp. 385-394; Vol. 119	
		ULIZAR, I. et al.; A Semiclosed-Cycle Gas Turbine with Carbon Dioxide-Argon as Working Fluid; Journal of Engineering for Gas Turbines and Power; July 1997; pp. 612-616; Vol. 19	
		WILSON, D. G. et al.; The Design of High-Efficiency Turbomachinery and Gas Turbines, Second Edition; 1998; pp. 146-161; Prentice Hall; Upper Saddle River, New Jersey	

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